

TITLE

5 MICROCHEMICAL METHOD AND APPARATUS FOR SYNTHESIS AND
 COATING OF COLLOIDAL NANOPARTICLES

ABSTRACT

The present invention represents a radical departure from most conventional
10 macro-scale batch processing methods employed to synthesize and coat colloidal
nanoparticles. Synthesis and coating are in series and *in-situ*, obviating the need for
numerous cumbersome, and often expensive intermediate-processing steps. In one
embodiment, the invention is a method and apparatus for synthesizing colloidal
nanoparticles. In another embodiment, the invention is a method and apparatus for
15 enabling coating of colloidal nanoparticles using an electrophoretic switch for contacting
and separating said colloid nanoparticles.

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